

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 10/055,818
Reply to Office Action of Aug. 4, 2003**II. Remarks In Response to the Office Action****A. General Remarks**

Claims 1-14 were pending in the application prior to this reply. Claim 11 has been canceled. New claims 15-24 have been added. Therefore, claims 1-10 and 12-24 are pending in the application.

For the convenience of the Examiner, Applicant has reprinted the substance of the Office Action mailed 08/04/03 in 10-point, bold type and italicized. Applicant's statements or arguments immediately follow each section.

B. Miscellaneous**1. Supply a copy of Prior Art Fig. 1 with appropriate date if available.**

Presently, Applicant does not have a copy of Prior Art Fig. 1 available with an appropriate date. In the present application, Fig. 1 is admitted prior art. Therefore, it does not appear necessary for Applicant to provide such a copy of Fig. 1 with a date. Should the Examiner wish to have such a copy, however, Applicant will attempt to obtain one if available.

C. Claim Rejections - 35 USC § 102**2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:**

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 6, 8, 9, 10, 11, 13, 14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Fouad.

Cabinet/enclosure is 100. Bus bar in a first portion of cabinet 100 is bus bar 107. Bar 107 would inherently be mounted to an interior wall of cabinet 100 by known mounting structures such as insulators to mount and insulate the bar to/from an interior wall as known to one skilled in the power art. Power components would be capacitors 110-112 or 114-116 mounted in a second portion of cabinet 100. Magnetic components would be transformers 102, 103 mounted in a third portion of cabinet 100. The transformers are accessible from an exterior of the cabinet when door 101 is open. Clearly the components 102, 103 could inherently be installed first or last when assembling components in cabinet 100 with the components 102, 103 having a determined voltage rating depending on needed voltage, power requirements.

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 10/055,818
Reply to Office Action of Aug. 4, 2003

Claims 3, 6, and 8 have been amended to depend from claim 4, which has been rewritten in independent form to include all the limitations of base claim 1. Claims 13 and 14 have been amended to depend from claim 12, which has been rewritten in independent form to include all the limitations of base claim 11. Therefore, the rejections of claims 3, 6, 8, 13, and 14 are believed to be no longer applicable.

Applicant respectfully traverses the Examiner's conclusion that U.S. Pat. No 5,184,280 to Fouad (Fouad) anticipates listed claims 1, 9, 10, and new claim 19 in so far as Fouad does not teach or suggest all the limitations in amended, independent claims 1 and 9 and new claim 19.

1. Amended Claim 1 Is Not Anticipated By Fouad

Amended claim 1 recites:

1. (Currently Amended) A method of assembling an electronic device having both electric and magnetic components, comprising the steps of:
 - assembling an enclosure for said electronic device;
 - installing said electric components by attaching at least a portion of said electric components on a power panel and hooking said power panel in said enclosure;*
 - determining a voltage rating; and
 - subsequent to installing said electric components, installing said magnetic components corresponding to said voltage rating in said enclosure.

In stark contrast to claim 1, Fouad is directed to a bus bar arrangement for a cabinet 100. Fouad discloses the cabinet 100 with a cabinet door 101. Transformers 102 and 103 are mounted in the bottom of the cabinet 100. The bulk power supply includes the capacitors 110-112, 114-116 mounted above the transformers 102 and 103 and includes two regulating inductors 118 and 119 mounted above the capacitors. A vertical bus 107 is in the center of the cabinet 100, and various flexible bus bars 104, 105, 121, 122, 123 and 124 are shown providing interconnections between the bus 107 and the other components. See Fouad at col. 2, ll. 10-19 and Fig. 1.

Fouad clearly does not teach or suggest that electric components are installed "by attaching the electronic components on a power panel and hooking the power panel in the enclosure," as recited in amended claim 1. Because Fouad clearly does not teach or suggest all of the limitations of amended claim 1, Fouad cannot anticipate claim 1. For at least these reasons,

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 10/055,818
Reply to Office Action of Aug. 4, 2003

Applicants believe that independent claim 1 and claims 15-18 depending therefrom are not anticipated by Fouad and respectfully request the allowance of these claims in the next paper from the Office. New claims 15-18 are supported by originally filed disclosure and add no new matter. For example, new claim 15-18 are supported by Figs. 2-7 and associated written description.

2. Amended Claim 9 Is Not Anticipated By Fouad

Amended claim 9 recites:

9. A cabinet having an interior and housing:
a panel hooked in said interior of said cabinet;
a plurality of electric components attached to said panel; and
a plurality of magnetic components attached to said interior of said cabinet,
wherein said magnetic components are accessible from an exterior of said cabinet.

As noted above and in stark contrast to claim 9, Fouad merely discloses a cabinet 100 having transformers 102 and 103, capacitors 110-112, 114-116, and regulating inductors 118 and 119 that are mounted vertically in the cabinet 100 and are connected by bus bars 104, 105, 107, 121, 122, 123 and 124. See Fouad at col. 2, ll. 10-19 and Fig. 1. Fouad clearly does not teach or suggest "*a panel hooked in the interior of the cabinet*" and "*a plurality of electric components attached to said panel*," as recited in amended claim 9. Because Fouad clearly does not disclose all of the limitations of amended claim 9, Fouad cannot anticipate claim 9. For at least these reasons, Applicants believe that independent claim 9 and claim 10 depending therefrom are not anticipated by Fouad and respectfully request the allowance of these claims in the next paper from the Office.

Amendments to claim 9 is fully supported by the originally filed claim 4, Figs. 2-7 and associated written description, for example. Other amendments have been made to claims 9 and 10 merely to show proper antecedent basis.

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 10/055,818
Reply to Office Action of Aug. 4, 2003

3. New Claim 19 Is Not Anticipated By Fouad

New claim 19 has been added and recites:

19. (New) A cabinet housing an uninterruptible power supply, the cabinet having an interior and comprising:
- a wall attached in the interior of the cabinet and substantially dividing a side interior portion from a remainder of the interior of the cabinet;
 - at least one bus bar affixed to a side of the wall in the side interior portion;
 - a plurality of electric components disposed in a front interior portion of the remainder of the cabinet; and
 - a plurality of magnetic components disposed in a rear interior portion of the remainder of the cabinet.

As noted above and in stark contrast to claim 19, Fouad merely discloses a cabinet 100 having transformers 102 and 103, capacitors 110-112, 114-116, and regulating inductors 118 and 119 that are mounted vertically in the cabinet 100 and are connected by bus bars 104, 105, 107, 121, 122, 123 and 124. See Fouad at col. 2, ll. 10-19 and Fig. 1. Consequently, Fouad clearly does not teach or suggest "a wall ...substantially dividing a side interior portion from a remainder of the interior of the cabinet;...a plurality of electric components disposed in a front interior portion ...; and a plurality of magnetic components disposed in a rear interior portion..." as recited in amended claim 19. Because Fouad clearly does not disclose all of the limitations of amended claim 19, Fouad cannot anticipate claim 19. For at least these reasons, Applicants believe that new, independent claim 19 and new claims 20-24 depending therefrom are not anticipated by Fouad and respectfully request the allowance of these claims in the next paper from the Office.

Furthermore, new claim 20 is further believed to be not anticipated by Fouad upon additional grounds. New claim 20 requires that "the plurality of electric components include power electronic components installed on a power panel, the power panel attaching by a hook to the interior of the cabinet." As noted previously, Fouad clearly does not teach or suggest that electric components are installed on a power panel that hooks to the interior of the cabinet, as recited in new claim 20.

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 10/055,818
Reply to Office Action of Aug. 4, 2003

New claims 19-24 are supported by originally filed disclosure and add no new matter. For example, new claims 19-24 are supported by originally filed claims 11- 14, Figs. 2-7 and associated written description.

3. *Claims 1, 3, 6-8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Mayse et al. The metal assembled rack providing an enclosure is 12. Electronic components are installed. The magnetic components 52, 53 could inherently be installed first or last when assembling components in 12 with the components (transformers) 52, 53 having a determined voltage rating depending on needed voltage, power requirements. Capacitor is 71 or 72. Components 52, 53 are accessible from a rear portion of 12. The front, rear portions labeled in Fig. 2. Rack 12 is the only relied upon structure the examiner is using to refer to an enclosure.*

Claims 3 and 6-8 have been amended to depend from claim 4, which has been rewritten in independent form to include all the limitations of base claim 1. Therefore, the rejections of claims 3 and 6-8 are believed to be no longer applicable.

Applicant respectfully traverses the Examiner's conclusion that U.S. Pat. No 3,898,537 to Mayse et al. (Mayse) anticipates claim 1 in so far as Mayse does not teach or suggest all the limitations in amended, independent claim.

Amended claim 1 requires that the electric components are installed "by attaching the electronic components on a power panel and hooking the power panel in the enclosure." In stark contrast to claim 1, Mayse merely discloses a power supply 11 having a metal rack 21 (Fig. 2) mounted within a case 12 (Fig. 1). A transformer 44 is mounted on a base 24 of the rack 21, and other transformers 52 and 53 are mounted on the rack 21. Modules 42 and 43 having capacitors 71 and 72 and rectifiers 73 shown in Figure 3 are mounted in the rack 21. See e.g., Mayse at Figs. 1-3 and col. 3, line 51 to col. 5, line 34.

Mayse clearly does not teach or suggest that electric components are installed "by attaching the electronic components on a power panel and hooking the power panel in the enclosure," as recited in amended claim 1. Because Mayse clearly does not teach or suggest all of the limitations of amended claim 1, Mayse cannot anticipate claim 1. For at least these reasons, Applicants believe that independent claim 1 and new claims 15-18 depending therefrom are not anticipated by Mayse and respectfully request the allowance of these claims in the next paper from the Office.

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 10/055,818
Reply to Office Action of Aug. 4, 2003**C. Claim Rejections - 35 USC § 103**

4. *The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:*

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fouad in view of Farrington.

Fouad discloses the cabinet/enclosure with stalled electric components including magnetic components (102, 103) as discussed above in paragraph 2.

Fouad does not teach nor suggest the electric components including a control panel to control the components in cabinet 100.

Farrington discloses a control panel in Fig. 3 to control components in an electrical system having no exposed high voltage or a front portion thereof.

Therefore, it is considered obvious to one skilled at the time of the invention to provide a control panel as taught by Farrington as an electric component in/on the enclosure 100 of Fouad to control the electric components in cabinet 100 to provide proper operation of the electric components of the electrical system and to have no exposed high voltage on a front portion thereof to provide a safe panel for the user when operating electric components in a high voltage system.

5. *Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fouad in view of Brown.*

Fouad discloses the cabinet/enclosure with installed electric components including magnetic components (102, 103) as discussed above in paragraph 2.

Fouad does not teach nor suggest the use of pop-rivets to assemble the enclosure or cabinet 100.

Therefore, it is considered obvious to one skilled at the time of the invention to assemble 100 using pop-rivets taught by Brown to provide ease of assemble with less parts than using standard nuts and bolts in constructing a stable and safe enclosure 100 to protect the electric components in 100 that will last for years.

Claim 2 has been amended to depend from claim 4, which has been rewritten in independent form to include all the limitations of base claim 1. Claim 5 has been amended to depend from claim 4, which has been rewritten in independent form to include all the limitations of base claim 1. Therefore, the rejections of claims 2 and 5 are believed to be no longer applicable.

Applicant respectfully traverses the Examiner's conclusion that claim 1 is unpatentable over Fouad in view of U.S. Pat. No 5,185,705 to Farrington et al. (Farrington) and over Fouad in view of U.S. Pat. No 5,025,545 to Brown (Brown). As noted previously, Fouad clearly does not teach or suggest that electric components are installed "by attaching the electronic components on a power panel and hooking the power panel in the enclosure," as recited in amended claim 1.

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 10/055,818
Reply to Office Action of Aug. 4, 2003

Farrington merely discloses a display unit that can mount on the door of a circuit breaker enclosure. *See* Farrington at Fig. 6 and col. 6, ll. 33-41. Therefore, Farrington does not provide the limitations missing from Fouad.

Brown merely discloses securing a mounting bracket 19 for a cabinet drawer guide assembly to a rear wall of cabinetry by installing a pop rivet. *See* Brown at Fig. 2A and col. 3, ll. 51. Therefore, Brown does not provide the limitations missing from Fouad.

Because these references do not disclose all of the limitations of amended claim 1, they cannot render claim 1 obvious. For at least these reasons, Applicants believe that independent claim 1 and the claims depending therefrom are not rendered obvious by Fouad in view of Farrington and respectfully request the allowance of these claims in the next paper from the Office.

D. Allowable Subject Matter

6. *Claims 4, 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. No cited art teaches or suggest a control panel attached to an interior of cabinet/enclosure by a hook as claimed in claims 4, 12.*

Claim 4 has been rewritten in independent form including all of the limitations of the base claim (claim 1). Original claims 2-3 and 5-8 have been amended to depend directly or indirectly from rewritten claim 4. With these amendments, Applicants believe that claim 4 and claims 2-3 and 5-8 depending therefrom are in proper form for allowance and respectfully request their allowance in the next paper from the Office.

Claim 12 has been rewritten in independent form including all of the limitations of the base claim (claim 11). Original claims 13-14 have been amended to depend from rewritten claim 12. With these amendments, Applicants believe that claims 12-14 are in proper form for allowance and respectfully request their allowance in the next paper from the Office.

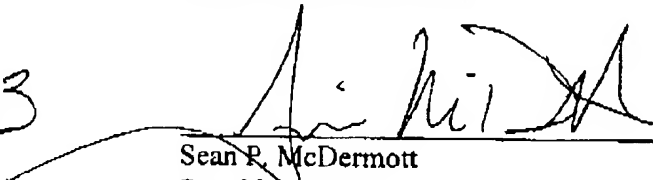
* * * *

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 10/055,818
Reply to Office Action of Aug. 4, 2003

To facilitate the resolution of any issues or questions presented by this paper, Applicants respectfully request that the Examiner directly contact the undersigned by phone to further the discussion, reconsideration, and allowance of the claims.

Respectfully submitted,

Date: Sept. 4, 2003
Sean P. McDermott

Reg. No. 49,000

HOWREY SIMON ARNOLD & WHITE, LLP

750 Bering Drive

Houston, TX 77057

Telephone: (713) 268-1357

RECEIVED
CENTRAL FAX CENTER
SEP 4 2003